

AMENDMENTS TO THE CLAIMS**1. – 2. (Canceled)**

3. (**Currently Amended**) An isolated fructosylamine oxidase enzyme from *Fusarium proliferatum*, which has the following physicochemical characteristics:

- (1) It is almost equally or more active on fructosyl valine as compared to fructosyl lysine;
- (2) The optimum pH for its enzyme reaction is 7.5;
- (3) The optimum temperature for stability of the enzyme is about 30-40°C; and
- (4) The molecular weight of the enzyme is about 39 kDa when estimated by SDS-PAGE, and is about 39.4 kDa when ~~estimated~~measured by gel filtration, wherein said fructosylamine oxidase comprises the amino acid sequence shown in SEQ ID NO: 4.

4. (Canceled)

5. (**Currently Amended**) An isolated fructosylamine oxidase enzyme from *Fusarium proliferatum*, which has the following physicochemical characteristics:

- (1) ~~It is not detectably active on fructosyl lysine but is active on fructosyl valine;~~
- (2) The optimum pH for its enzyme reaction is 7;
- (3) The optimum temperature for stability of the enzyme is about 30-40°C; and
- (4) The molecular weight of the enzyme is about 49 kDa when estimated by SDS-PAGE, and is about 58 kDa when ~~estimated~~measured by gel filtration, wherein said fructosylamine oxidase comprises the amino acid sequence shown in SEQ ID NO: 6.

6. – 11. (Canceled)